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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/706,965	11/06/2000	Esmaiel Kiani-Azarbayjany	MLABS.018C3	8509
20995 75	590 10/10/2003		EXAMINER	
KNOBBE MARTENS OLSON & BEAR LLP			KREMER, MATTHEW J	
2040 MAIN ST FOURTEENTH			ART UNIT	PAPER NUMBER
IRVINE, CA			3736	9
			DATE MAILED: 10/10/2003	, /

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	-c
` .	09/706,965	KIANI-AZARBAYJANY ET	AL.
Office Action Summary	Examiner	Art Unit	
	Matthew J Kremer	3736	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period volume to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may within the statutory minimum of the will apply and will expire SIX (6) Modulation to become	a reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication ABANDONED (35 U.S.C. § 133).	, on.
1) Responsive to communication(s) filed on 31.	<i>luly 2003</i> .		
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.		
3) Since this application is in condition for allowa			is
closed in accordance with the practice under Disposition of Claims	Ex parte Quayle, 1935 (C.D. 11, 453 O.G. 213.	
4) Claim(s) 1 and 12-15 is/are pending in the ap	plication.		
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1 and 12-15</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine			
10) The drawing(s) filed on is/are: a) □ acce			
Applicant may not request that any objection to th			
11) The proposed drawing correction filed on		disapproved by the Examiner.	
If approved, corrected drawings are required in re			
12) The oath or declaration is objected to by the Ex	ammer.		
Priority under 35 U.S.C. §§ 119 and 120		\$ 440(-) (-1) (5)	
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C	. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
1. Certified copies of the priority document			
2. Certified copies of the priority document			
 3. Copies of the certified copies of the prio application from the International Bu * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a))		
14) Acknowledgment is made of a claim for domesti	•		tion).
a) ☐ The translation of the foreign language pro	ovisional application has	been received.	
Attachment(s)	io priority under 30 0.0.	2. 33 120 GHOIOI 121.	
1) Notice of References Cited (PTO-892)		v Summary (PTO-413) Paper No(s).	. •
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _ 	· ==	of Informal Patent Application (PTO-152)	

Application/Control Number: 09/706,965 Page 2

Art Unit: 3736

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/31/2003 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1 and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 5,372,135 to Mendelson et al. Mendelson et al. discloses a system for obtaining glucose information. (column 1, lines 19-22 of Mendelson et al.). The system includes a lamp (10) that emits a plurality of wavelengths, a pulse inducement device (26, 26'), a detector (32, 32'), and a signal processor (36). (Figs. 3 and 5 of Mendelson

Application/Control Number: 09/706,965 Page 3

Art Unit: 3736

et al.). In regard to claim 12, the pulse inducement device is operated in a periodic manner which would cause periodic changes in the volume of blood. (column 6, lines 11-15 of Mendelson et al.).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,372,135 to Mendelson et al. as applied to claim 1, and further in view of U.S. Patent 4,883,055 to Merrick. Mendelson et al. teaches that the pulse inducement device causes periodic changes in the volume of blood. (column 6, lines 11-15 of Mendelson et al.). Mendelson et al. does not teach what kind of periodic function to use with the pulse inducement device. Merrick teaches a pulse oximeter which analyzes the oxygen saturation of blood. Merrick discloses that applying pressure which is synchronized with the normal blood pulse is useful for analyzing blood constituents. (column 2, lines 38-40 of Merrick). Such a periodic function falls within the scope of the type of periodic function as suggested by Mendelson et al. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use a periodic function that is synchronous with the normal pulse rate as disclosed by

Application/Control Number: 09/706,965 Page 4

Art Unit: 3736

Merrick in the pulse inducement device of Mendelson et al. since Mendelson et al. suggests that the pulse inducement device may be used in a periodic manner and Merrick teaches one such periodic manner. In regard to claim 14, Mendelson et al. does not teach the use of a receptable that receives the fleshy medium having an inflatable bladder. Mendelson et al. teaches that the pulse inducement device can be an electro-mechanically squeezing head or clamp. (column 5, lines 60-63 of Mendelson et al.). Mendelson et al. further teaches that the modulation of blood volume can be accomplished in a number of ways. (column 4, lines 32-34 of Mendelson et al.). Mendelson et al. is implying that various methods can be used as the pulse inducement device. Merrick teaches an inflatable bladder that is used as a pulse inducement device. (Figs. 1-2 of Merrick). Such a device falls within the scope of the devices for creating blood flow modulation as suggested by Mendelson et al. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use the inflatable bladder of Merrick as the pulse inducement device of Mendelson et al. since Mendelson et al. implies that various electro-mechanical devices can be used for blood flow modulation and Merrick teaches one such device.

6. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,372,135 to Mendelson et al. as applied to claim 1, and further in view of U.S. Patent 5,007,423 to Branstetter et al. In regard to claim 15, Mendelson et al. does not teach the use of a receptable that receives the fleshy medium having a temperature variation element for inducing the change in blood flow. Mendelson et al. teaches that

Application/Control Number: 09/706,965

Art Unit: 3736

the modulation of blood volume can be accomplished in a number of ways. (column 4, lines 32-34 of Mendelson et al.). Mendelson et al. is implying that various methods can be used as the pulse inducement device. Branstetter et al. teaches a temperature element for increasing the blood flow. (column 2, lines 32-47 of Branstetter et al.). Such a device falls within the scope of the devices for creating blood flow modulation as suggested by Mendelson et al. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use the temperature element of Branstetter et al. as the pulse inducement device of Mendelson et al. since Mendelson et al. implies that other devices can be used to induce blood flow modulation and Branstetter et al. teaches one such device. The pulse inducement device is operated in a periodic manner. (column 6, lines 11-15 of Mendelson et al.).

Page 5

Response to Amendment

7. The declaration filed on 7/31/2003 under 37 CFR 1.131 has been considered but is ineffective to overcome the Mendelson et al. reference. The evidence submitted is insufficient to establish a conception of the invention prior to the effective date of the Mendelson et al. reference. While conception is the mental part of the inventive act, it must be capable of proof, such as by demonstrative evidence or by a complete disclosure to another. Conception is more than a vague idea of how to solve a problem. The requisite means themselves and their interaction must also be comprehended. See Mergenthaler v. Scudder, 1897 C.D. 724, 81 O.G. 1417 (D.C. Cir. 1897). "The 37 CFR 1.131 affidavit or declaration must establish possession of either the whole invention

Art Unit: 3736

claimed or something falling within the claim." (See MPEP 715.02). The evidence that was submitted to show conception discloses the use of a pulse-inducing device while taking venous blood saturation measurements. The claimed invention of the present invention is the use of a pulse-inducing device for making glucose measurements. The evidence to prove conception must show a glucose-measuring device comprising a pulse-inducing device, a light source, and optical detector to establish possession of the claimed invention. It is noted that the evidence that was submitted shows an invention already known in the art, i.e., a pulse-inducement device used in saturation measurements, as shown in U.S. Patent 4,883,055 to Merrick. The evidence submitted is also insufficient to establish diligence from a date prior to the date of reduction to practice of the Mendelson et al. reference to either a constructive reduction to practice or an actual reduction to practice. "Where conception occurs prior to the date of the reference, but reduction to practice is afterward, it is not enough merely to allege that applicant or patent owner had been diligent." (See MPEP 715.07(a)). The Applicant has provided no evidence indicating due diligence between the date prior to12/31/1991 and the filing date of 6/7/1995.

Response to Arguments

8. Applicant's arguments filed 7/31/2003 have been fully considered but they are not persuasive. The Examiner agrees with the Applicant that Mendelson et al. does not claim a system for monitoring concentrations of blood constituents using an active inducement device, which causes periodic changes in a volume of blood in the fleshy

medium. As a result, a 37 CFR 1.132 declaration would overcome the Mendelson et al. reference but because the declaration that was submitted was insufficient as indicated above, the rejections under 102 and 103 using the Mendelson et al. reference are properly maintained.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J Kremer whose telephone number is 703-605-0421. The examiner can normally be reached on Mon. through Fri. between 7:30 a.m. - 4:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eric Winakur can be reached on 703-308-3940. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.

Matthew Kremer Assistant Examiner

Art Unit 3736

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